

Universitas Bina Nusantara
Jurusan Teknik Industri Fakultas Teknik
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***PENINGKATAN EFISIENSI DISTRIBUSI BAHAN BAKU DARI
PEMASOK AREA CIBITUNG KE PT. XYZ SUNTER PLANT
DENGAN MENGIMPLEMENTASIKAN SISTEM MILKRUN***

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Abstrak

Sasaran utama dari manajemen rantai pasok adalah mendapatkan produk yang tepat, dengan kuantitas yang tepat, lokasi yang tepat, kondisi yang tepat, pada waktu yang tepat, serta dengan biaya yang terjangkau. Oleh karena itu pengembangan manajemen rantai pasok yang lebih efektif dan efisien sangatlah penting karena pada akhirnya dapat meningkatkan laba perusahaan.

Telah dilakukan penelitian mengenai perubahan sistem direct delivery menjadi sistem milkrun delivery dalam proses pengambilan bahan baku berupa komponen dari pemasok lokal yang terletak di wilayah Cibitung, Jawa Barat, ke PT. XYZ yang terletak di wilayah Sunter, Jakarta Utara. Perubahan ini dilakukan karena berdasarkan hasil pengamatan, penerapan sistem direct delivery di PT. XYZ dirasakan kurang efisien. PT. XYZ sendiri merupakan sebuah perusahaan yang bergerak di bidang produksi suku cadang otomotif baik kendaraan beroda dua maupun kendaraan beroda empat.

Dari hasil penelitian, dapat disimpulkan bahwa sistem milkrun delivery lebih efisien bila dibandingkan sistem direct delivery. Dengan mengimplementasikan sistem milkrun delivery pada pemasok area Cibitung, days on inventory bahan baku menurun 1,2 hari atau 39%, jarak tempuh armada truk menurun 50%, biaya bahan bakar menurun 50%, biaya tol menurun 60%, jumlah kedatangan armada truk yang datang dari wilayah Cibitung menurun 80%, jumlah tenaga kerja yaitu sopir menurun 80%, pemakaian luas gudang menurun 44%, dan emisi gas rumah kaca khususnya karbondioksida menurun sebesar 88%.

Kata Kunci : Manajemen rantai pasok, direct delivery, milkrun delivery, days on inventory, emisi gas rumah kaca

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***IMPROVING EFFICIENCY OF RAW MATERIALS
DISTRIBUTION FROM SUPPLIERS IN CIBITUNG AREA
TO PT. XYZ SUNTER PLANT WITH IMPLEMENTING
MILKRUN SYSTEM***

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Abstract

The main purpose of supply chain management is getting the right product, the right quantity, the right location, the right condition, at the right time, and at affordable cost. Therefore, the development of supply chain management being more effective and more efficient is very important because ultimately increase company profit.

Has conducted the research about direct delivery system that changes into milkrun delivery system in the process of taking raw materials (components form) from local suppliers which located in Cibitung, West Java, to PT. XYZ which located in Sunter, North Jakarta. That changed was based on observation that implementation of direct delivery system at PT. XYZ was less efficient. PT. XYZ is a company which engaged in the production of automotive spare parts both two-wheeled vehicles and four-wheeled vehicles.

From the research result, it can be concluded that milkrun delivery system is more efficient than direct delivery system. By implementing milkrun delivery system at suppliers in Cibitung area, days on inventory of raw materials decreased by 1.2 days or 39%, truck mileage decreased by 50%, fuel costs decrease by 50%, toll charges decreased by 60%, number of truck arrivals from Cibitung decreased by 80%, number of truck driver decreased by 80%, usage of warehouse area decreased by 44%, and greenhouse gas emissions especially carbon dioxide decreased by 88%.

Keywords : supply chain management, direct delivery, milkrun delivery, days on inventory, greenhouse gas emissions